

**03050104-060**  
**(Twentyfive Mile Creek)**

**General Description**

Watershed 03050104-060 is located in Richland, Kershaw, and Fairfield Counties and consists primarily of **Twentyfive Mile Creek** and its tributaries. The watershed occupies 79,676 acres of the Sandhills and Upper Coastal Plain regions of South Carolina. The predominant soil types consist of an association of the Lakeland-Wagram-Goldston-Alpin-Tatum series. The erodibility of the soil (K) averages 0.24; the slope of the terrain averages 10%, with a range of 0-45%. Land use/land cover in the watershed includes: 75.7% forested land, 10.7% agricultural land, 6.5% scrub/shrub land, 5.8% urban land, 0.9% water, 0.3% forested wetland (swamp), and 0.1% barren land.

Twentyfive Mile Creek originates near the Town of Blythewood and accepts drainage from Simmons Creek, Ben Hood Branch, Round Top Branch, Rice Creek, Sandy Branch (Bridge Creek, Reedy Branch, Tuppler Branch), Rocky Branch, Flat Branch, and Bear Creek (Donnington Branch). Further downstream, Big Branch enters Twentyfive Mile Creek followed by Yankee Branch, Jim Branch (Spring Branch), Briar Branch, Dodge Branch, Horsepen Creek (Wolfpit Branch), Bell Branch (Rock Branch), Cook Run, Flat Branch, and Beaverdam Branch before draining into the Wateree River. There are a total of 192.5 stream miles in the watershed and numerous ponds and lakes (totaling 508.1 acres) used for recreation and irrigation, all classified FW.

**Water Quality**

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
CW-229	P	FW	BEAR CREEK AT S-40-82
CW-080	S/BIO	FW	TWENTYFIVE MILE CREEK AT S-28-05 3.7 MI W OF CAMDEN

**Twentyfive Mile Creek (CW-080)** - Aquatic life uses are partially supported based on macroinvertebrate community data and pH excursions. A significant increasing trend in dissolved oxygen concentration suggests improving conditions for this parameter. Recreational uses are partially supported due to fecal coliform bacteria excursions.

**Bear Creek (CW-229)** - Aquatic life uses are fully supported, however there was a high concentration of zinc measured in 1995. A significant decreasing trend in turbidity suggests improving conditions for this parameter. Recreational uses are partially supported due to fecal coliform bacteria excursions.

**NPDES Program**

**Active NPDES Facilities**

<b>RECEIVING STREAM</b>	<b>NPDES#</b>
<b>FACILITY NAME</b>	<b>TYPE</b>
<b>PERMITTED FLOW @ PIPE (MGD)</b>	<b>LIMITATION</b>
<b>COMMENT</b>	
BEAR CREEK TRIBUTARY	SC0041378

KENNECOTT/ RIDGEWAY GOLD MINE  
PIPE #: 003 FLOW: M/R

MINOR INDUSTRIAL  
EFFLUENT

HORSEPEN CREEK  
ELGIN ESTATES, INC.  
PIPE #: 001 FLOW: 0.015  
WQL FOR BOD<sub>5</sub>, NH<sub>3</sub>-N, TRC, DO

SC0032395  
MINOR DOMESTIC  
WATER QUALITY

RICE CREEK  
HOLOX, LTD./BLYTHWOOD  
PIPE #: 001 FLOW: M/R

SCG250076  
MINOR INDUSTRIAL  
EFFLUENT

## Nonpoint Source Management Program

### *Mining Activities*

**MINING COMPANY**  
**MINE NAME**

**PERMIT #**  
**MINERAL**

CAROLINA CERAMICS, INC.  
KERSHAW #2 CLAY MINE

0138-55  
SERICITE

CAROLINA CERAMICS, INC.  
MOBLEY ROAD MINE

0403-79  
SHALE

### *Land Disposal Activities*

#### **Landfill Facilities**

**SOLID WASTE LANDFILL NAME**  
**FACILITY TYPE**

**PERMIT #**  
**STATUS**

EI DUPONT  
INDUSTRIAL

283316-1601 (IWP-075, IWP-175,  
ACTIVE IWP-083)

KERSHAW COUNTY LUGOF/ELGIN  
MUNICIPAL

DWP-917, DWP-008  
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BF GOODRICH (THERMOID)  
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CLOSED

GULLEDGE COMPOSTING SITE  
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282443-3001  
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#### **Land Application Sites**

**LAND APPLICATION SYSTEM**  
**FACILITY NAME**

**ND#**  
**TYPE**

LAGOON  
ROCK SPRINGS DEVELOPMENT

ND0067580  
DOMESTIC

LAGOON  
HOLOX, LTD./BLYTHWOOD

ND0069582  
INDUSTRIAL

## Growth Potential

There is a high potential for continued (rapid) residential, commercial, and industrial growth in

this watershed, with an emphasis along the U.S. Hwy. 1 corridor between the Cities of Columbia and Camden. Sewer is provided to this area through a regional system located in Kershaw County.